Online Water Quality Analyzer for Total Phosphorus (TP)

Technical Principle

Under neutral conditions, the water sample to be tested is digested with potassium persulfate to oxidize all phosphorus contained therein into orthophosphate. In an acidic medium, orthophosphate reacts with ammonium molybdate. In the presence of antimony salt, phosphomolybdic heteropoly acid is formed, which is then immediately reduced by ascorbic acid to produce a blue complex. After photoelectric colorimetry, the reading is converted by the instrument into the TP value of the sample.

Technical Specifications

Model	HNTP-2000
Measurement Method	Ammonium molybdate Spectrophotometry
Measuring Range	(0~2/10/50) mg/L, customizable
Accuracy	±2%
Repeatability	≤1%
Zero Drift	±1%
Span Drift	±1%
Measurement Time	≤50min
Communication Interface	1 channel of (4~20)mA output, 2 channels RS485, 1 channel RS232, 1 channel Ethernet port, 1 channel USB interface
Digital Output	1 channel passive output, 1 channel 24V DC active output, 220V AC output optional
Touch Screen	8-inch color touch screen
Equipment Dimensions	42.5 cm × 42 cm × 126 cm
Net Weight	Approximately 60 kg


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HNTP-2000
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